

Paper-M.C.-204 : Production and Materials Management

(Same for USOL Candidates)

Time Allowed : 3 Hrs.

Maximum Marks : 80

Note : Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

UNIT-I

1. Explain the scope and objectives of production management. What is its significance in a service organisation ?
2. Explain the meaning of risk, relative to materials management, and its determination. What are the features and applications of static inventory model under risk ?
3. The production manager of a plant sends requisition for issue of 10 pieces of ball bearings. But no stock is found in the stores. Highlight the stages in purchase of these ball bearings. How can the lead time be reduced ?

UNIT-II

4. Which factors affect the price of an item ? How is it determined ?
5. Differentiate between p-chart and c-chart. How are they constructed ? Explain with the help of suitable examples.

UNIT-III

6. Explain the significance of location decisions. Which factors should be considered for deciding the location of (i) a sugar mill and (ii) an IT company ?
7. What are the principles of layout ? Discuss the merits and demerits of process layout.

8. You are given the following data on the activities of a project :

Activity	Time (weeks)		Cost (Rs.)	
	Normal	Crash	Normal	Crash
1-2	3	2	300	400
2-3	3	3	30	30
2-4	7	5	420	580
2-5	9	7	720	810
3-5	5	4	250	300
4-5	0	0	0	0
5-6	6	4	320	410
6-7	4	3	400	470
6-8	13	10	780	900
7-8	10	9	1000	1200

Find the normal time and cost and crash time and cost.

UNIT-IV

9. What is work study ? What purpose does it serve ? Explain the pre-requisites for a procedure of work study.
10. Write notes on :
- (a) Performance rating
 - (b) Synthetic time standards.